

RAW SEQUENCE LISTING ERROR REPORT



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The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/623,568A

Source: /600

Date Processed by STIC: 8/28/2002

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216. PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax) PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

http://www.uspto.gov/web/offices/pac/checker

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

- 1. EFS-Bio (http://www.uspto.gov/ebc/efs/downloads/documents.htm, EFS Submission User Manual ePAVE)
- 2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
- 3. Hand Carry directly to:

U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202

U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 01/29/2002

ERROR DETECTED	SUGGESTED CORRECTION SERIAL NUMBER: 09/623,568A
ATTN: NEW RULES CASES	: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE
1Wrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
2Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.
3Misaligned Amino Numbering	The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
4Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
5Variable Length	Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
6PatentIn 2.0 "bug"	A "bug" in Patentln version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) Normally, Patentln would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
7Skipped Sequences (OLD RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped
	Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
8Skipped Sequences (NEW RULES)	Sequence(s) missing. If Intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000
Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
0Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
1Use of <220>	Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
2PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
3Misuse of n	n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.

AMC/MH - Biotechnology Systems Branch - 08/21/2001



Input Set : A:\EP.txt

Output Set: N:\CRF4\08282002\1623568A.raw

```
Does Not Comply
      3 <110> APPLICANT: Miller, Barbara
                                                                  Corrected Diskette Needed
             Osmani, Stephen
                                                                    see pp 1-3,
              Clawson, Gary
              Zhang, Min-Ying
              Norris, James
      9 <120> TITLE OF INVENTION: Use of Human Homolog Of A Nuclear Migration Gene For
Treatment And
    10
              Diagnosis Of Cancer
     12 <130> FILE REFERENCE: PSU-0016
    14 <140> CURRENT APPLICATION NUMBER: 09/623,568A
    15 <141> CURRENT FILING DATE: 2001-03-23
    17 <150> PRIOR APPLICATION NUMBER: 60/076,885
     18 <151> PRIOR FILING DATE: 1998-03-05
     20 <150> PRIOR APPLICATION NUMBER: PCT US99/04996
     21 <151> PRIOR FILING DATE: 1999-03-05
     23 <160> NUMBER OF SEQ ID NOS: 16
     25 <170> SOFTWARE: PatentIn version 3.1
     27 <210> SEQ ID NO: 1
     28 <211> LENGTH: 14
     29 <212> TYPE: PRT
     30 <213> ORGANISM: artificial Sequence
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     33 <223> OTHER INFORMATION:
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     41 <210> SEQ ID NO: 2
     42 <211> LENGTH: 15
     43 <212> TYPE: PRT
     44 <213> ORGANISM: artificial Sequence
     46 <220> FEATURE:
     47 <223> OTHER INFORMATION Peptide
     49 <400> SEQUENCE: 2
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     52 1
                        5
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     56 <211> LENGTH: 24
     57 <212> TYPE: DNA
     58 <213> ORGANISM: artificial Sequence
                                                      same enor as above
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     61 <223> OTHER INFORMATION: Oligonucleotide
     63 <400> SEQUENCE: 3
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     64 ttctgttcgt ctgaagttgg cagc
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67 <210> SEQ ID NO: 4

٠.

RAW SEQUENCE LISTING DATE: 08/28/2002 PATENT APPLICATION: US/09/623,568A TIME: 10:39:01

Input Set : A:\EP.txt

Output Set: N:\CRF4\08282002\1623568A.raw

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70 <213> ORGANISM: artificial Sequence
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73 <223> OTHER INFORMATION Oligonucleotide
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94 <213> ORGANISM: artificial Sequence
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104 <211> LENGTH: 20
105 <212> TYPE: DNA
106 <213> ORGANISM: artificial Sequence
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109 <223> OTHER INFORMATION: Oligonucleotide
111 <400> SEQUENCE: 7
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129 <212> TYPE: DNA
130 <213> ORGANISM: artificial Seguence
132 <220> FEATURE:
133 <223> OTHER INFORMATION: Oligonucleotide
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139 <210> SEQ ID NO: 10
140 <211> LENGTH: 24
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Input Set : A:\EP.txt

Output Set: N:\CRF4\08282002\1623568A.raw

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152 <211> LENGTH: 1281
153 <212> TYPE: DNA
154 <213> ORGANISM: Homo sapiens
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159 aggageggtt egaeggeatg ttgetggeea tggeteagea geaegaggge ggegtgeagg
                                                                          180
161 agcttgtgaa caccttcttc agcttccttc gacgcaaaac agactttttc attggaggag
163 aagaagggat ggcagagaag cttatcacac agactttcag ccaccacaat cagctggcac
                                                                          240
                                                                          300
165 agaagacccg gcgggagaag agagcccggc aggaggccga gcggcgggag aaggcggagc
167 gggcggccag actggccaag gaagccaagt cagagacctc agggccccag atcaaggagc
                                                                          360
169 taactgatga agaggcagag aggctgcagc tagagattga ccagaaaaag gatgcagaga
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171 atcatgaggc ccagctcaag aacggcagcc ttgactcccc agggaagcag gatactgagg
                                                                          480
173 aagatgagga ggaagatgag aaggacaaag gaaaactgaa gcccaaccta ggcaacgggg
                                                                          540
                                                                          600
175 cagacctgcc caattaccgc tggacccaga ccctgtcgga gctggacctg gcggtccctt
177 tctgtgtgaa cttccggctg aaagggaagg acatggtggt ggacatccag cggcggcacc
                                                                          660
                                                                          720
179 tccgggtggg gctcaagggg cagccagcga tcattgatgg ggagctctac aatgaagtga
181 aggtggagga gagctcgtgg ctcattgagg acggcaaggt ggtgactgtg catctggaga
                                                                          780
183 agatcaataa gatggagtgg tggagccgct tggtgtccag tgaccctgag atcaacacca
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185 agaagattaa ccctgagaat tccaagctgt cagacctgga cagtgagact cgcagcatgg
                                                                          960
187 tggaaaagat gatgtatgac cagcgacaga agtccatggg gctgccaact tcagacgaac
                                                                         1020
189 agaagaaaca ggagattctg aagaagttca tggatcaaca tccggagatg gatttttcca
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191 aggctaaatt caactagccc ctgttttttc ctccctgaac tcttggggct gagctgcaac
193 cacccaactt tettteecac tettetetgg gaettgtggg ceteaggget tggggcagge
                                                                         1140
195 atgggactgg cccaggcaca caggtcccgg ggcatcagga gaaaggctgg gtcttgggac
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197 cttgtcctcc ccagttggcc tactgttaca cattaaaacg atttgcccag ctcaaaaaaa
                                                                         1260
                                                                         1281
199 aaaaaaaaaa aaaaaaaaa a
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203 <211> LENGTH: 331
204 <212> TYPE: PRT
205 <213> ORGANISM: Homo sapiens
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213 Met Ala Gln Gln His Glu Gly Gly Val Gln Glu Leu Val Asn Thr Phe
214
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217 Phe Ser Phe Leu Arg Arg Lys Thr Asp Phe Phe Ile Gly Gly Glu Glu
218
221 Gly Met Ala Glu Lys Leu Ile Thr Gln Thr Phe Ser His His Asn Gln
                                                60
222
                            55
225 Leu Ala Gln Lys Thr Arg Arg Glu Lys Arg Ala Arg Gln Glu Ala Glu
                        70
                                            75
229 Arg Arg Glu Lys Ala Glu Arg Ala Ala Arg Leu Ala Lys Glu Ala Lys
```

Input Set : A:\EP.txt

Output Set: N:\CRF4\08282002\I623568A.raw

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237	Glu	Arg	Leu	Gln	Leu	Glu	Ile	Asp	Gln	Lys	Lys	Asp	Ala	Glu	Asn	His
238			115					120					125			
241	Glu	Ala	Gln	Leu	Lys	Asn	Gly	Ser	Leu	Asp	Ser	Pro	Gly	Lys	Gln	Asp
242		130					135			_		140	_	_		-
245	Thr	Glu	Glu	Asp	Glu	Glu	Glu	Asp	Glu	Lys	Asp	Lys	Gly	Lys	Leu	Lys
	145			_		150		_		_	155	_	-	_		160
249	Pro	Asn	Leu	Gly	Asn	Gly	Ala	Asp	Leu	Pro	Asn	Tyr	Arg	Trp	Thr	Gln
250				_	165	_		_		170					175	
253	Thr	Leu	Ser	Glu	Leu	Asp	Leu	Ala	Val	Pro	Phe	Cys	Val	Asn	Phe	Arg
254				180					185					190		
257	Leu	Lys	Gly	Lys	Asp	Met	Val	Val	Asp	Ile	Gln	Arg	Arg	His	Leu	Arg
258			195					200					205			
261	Val	Gly	Leu	Lys	Gly	Gln	Pro	Ala	Ile	Ile	Asp	Gly	Glu	Leu	Tyr	Asn
262		210					215					220				
265	Glu	Val	Lys	Val	Glu	Glu	Ser	Ser	Trp	Leu	Ile	Glu	Asp	Gly	Lys	Val
	225					230					235					240
269	Val	Thr	Val	His	Leu	Glu	Lys	Ile	Asn	Lys	Met	Glu	Trp	Trp	Ser	Arg
270					245					250					255	
273	Leu	Val	Ser	Ser	Asp	Pro	Glu	Ile	Asn	Thr	Lys	Lys	Ile	Asn	Pro	Glu
274				260					265					270		
277	Asn	Ser	Lys	Leu	Ser	Asp	Leu	Asp	Ser	Glu	Thr	Arg	Ser	Met	Val	Glu
278			275					280					285			
281	Lys	Met	Met	Tyr	Asp	Gln	Arg	Gln	Lys	Ser	Met	Gly	Leu	Pro	Thr	Ser
282		290					295					300				
285	Asp	Glu	Gln	Lys	Lys	Gln	Glu	Ile	Leu	Lys	Lys	Phe	Met	Asp	Gln	His
286	305					310					315					320
289	Pro	Glu	Met	Asp	Phe	Ser	Lys	Ala	Lys	Phe	Asn					
290					325					330						
				ON C												
294	<213	l> Li	ENGT	H: 30	32											
295	<212	2> T	PE:	PRT												
296	<213	3> OI	RGAN	ISM:	Rati	tus 1	rattı	ıs								
			_	NCE:												
300	Met	Gly	Gly	Glu	Gln	Glu	Glu	Glu	Arg	Phe	Asp	Gly	Met	Leu	Leu	Ala
301					5					10					15	
304				Gln												, Phe
305				20					25					30		
308	Phe	Ser	Phe	Leu	Arg	Arg	Lys	Thr	Asp	Phe	Phe	Ile	Gly	Gly	Glu	Glu
309			35					40					45			
312	Gly	Met	Ala	Glu	Lys	Leu	Ile	Thr	Gln	Thr	Phe	Asn	His	His	Asn	Gln
313		50					55					60				
		Ala	Gln	Lys	Ala	Arg	Arg	Glu	Lys	Arg	Ala	Arg	Gln	Glu	Thr	
317						70					75					80
	Arg	Arg	Glu	Lys		Glu	Arg	Ala	Ala		Leu	Ala	Lys	Glu		Lys
321					85					90					95	
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Input Set : A:\EP.txt

Output Set: N:\CRF4\08282002\1623568A.raw

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329	-		115					120		•	•	-	125			
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333		130			_		135			_		140	_	_		_
336	Ala	Glu	Glu	Glu	Glu	Asp	Glu	Glu	Asp	Glu	Lys	Asp	Lys	Gly	Lys	Leu
337	145					150					155					160
340	Lys	Pro	Asn	Leu	Gly	Asn	Gly	Ala	Asp	Leu	Pro	Asn	Tyr	Arg	Trp	Thr
341					165					170					175	
344	Gln	Thr	Leu	Ser	Glu	Leu	Asp	Leu	Ala	Val	Pro	Phe	Arg	Val	Ser	Phe
345				180					185					190		
348	Arg	Leu	Lys	Gly	Lys	Asp	Val	Val	Val	Asp	Ile	Gln	Arg	Arg	His	Leu
349			195					200					205			
352	Arg	Val	Gly	Leu	Lys	Gly	Gln	Ala	Pro	Val	Ile	Asp	Gly	Glu	Leu	Tyr
353		210					215					220				
356	Asn	Glu	Val	Lys	Val	Glu	Glu	Ser	Ser	Trp	Leu	Ile	Glu	Asp	Gly	Lys
357	225					230					235					240
360	Val	Val	Thr	Val	His	Leu	Glu	Lys	Ile	Asn	Lys	Met	Glu	Trp	Trp	Asn
361					245					250					255	
364	Arg	Leu	Val	Thr	Ser	Asp	Pro	Glu	Ile	Asn	Thr	Lys	Lys	Ile	Asn	Pro
365				260					265					270		
368	Glu	Asn		Lys	Leu	Ser	Asp	Leu	Asp	Ser	Glu	Thr	-	Ser	Met	Val
369			275					280					285			
	Glu	_	Met	Met	Tyr	Asp		Arg	Gln	Lys	Ser		Gly	Leu	Pro	Thr
373		290	_	_			295	_	_			300				
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	His	Pro	Glu	Met		Phe	Ser	Lys	Ala		Phe	Asn				
381																
		<210> SEQ ID NO: 14 <211> LENGTH: 198														
					98											
	<212				3	1	11	a.	.1	_						
					_	erg I.	LIUS	птас	ılans)						
	<400					Dro	Cor	502	ת 1 ת	N cm	Tou	λl n	λla	λνα	C111	Ala
391		ser	GIU	GIII	5 5	PIO	ser	ser	Ата	10	ьeu	Ala	нта	AIG	15	нта
		C1	T 17.0	Cln	-	Tura	λl-,	λl a	Glu		ת 1 ת	Clu	Cln	ת 1 ת		Tou
396	Giu	Gru	цуз	20	AIG	цуъ	AIG	AIA	25	GIU	AIG	Giu	GIII	30	1111	пец
	Dro	mazz	Tvc		Пhr	Gln	Thr	Tla	Arg	λen	Wa 1	λen	Va 1		Tla	Dro
400	110	-y-	35	пр	1111	GIII	1111	40	птд	пор	Val	nsp	45	1111	110	110
	Val	Sar		λcn	Tau	Lvc	G137		A cn	Lau	Nen	Wa 1		T.011	Lare	Lys
404	Val	50	AIG	NOII	шси	шуз	55	пта	nsp	пси	изъ	60	V u1	БСС	בענו	шуз
	Δen		Tle	Lve	Va 1	T.vc		Lve	G] v	Glu	Δsn		Glu	Val	Phe	Ile
408			110	2,3		70		2,3			75	I	- L u			80
		G] v	Gln	Phe	Pro		Pro	Tle	Lys	Pro		Glu	Ser	Ser	Tro	
412		1	O 1 1.1		85				_, 5	90		-14		501	95	
	Leu	Glu	Thr	Thr		Lvs	Pro	Pro	G] v		Glu	Va 1	Ser	Ile		Leu
416				100		-10	0		105	_1 5				110		
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Input Set : A:\EP.txt

Output Set: N:\CRF4\08282002\1623568A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the $\langle 220 \rangle$ to $\langle 223 \rangle$ fields of each sequence which presents at least one n or Xaa.

Seq#:16; Xaa Pos. 9,11

VERIFICATION SUMMARY

DATE: 08/28/2002

PATENT APPLICATION: US/09/623,568A

TIME: 10:39:02

Input Set : A:\EP.txt

Output Set: N:\CRF4\08282002\1623568A.raw

L:496 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0